Isolation and mapping of a polymorphic DNA sequence (pYNZ15) on chromosome 2 [D2S50]

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SOURCE/DESCRIPTION: A 3.1 kb BamHI fragment from cosmid YNZ15 was subcloned into the BamHI site of pBR322.

POLYMORPHISM: TaqI identifies a two allele polymorphism (T1 : 1.8 kb, T2 : 0.9 kb).

FREQUENCY: Estimated from 100 unrelated Caucasians.

TaqI	T1 : 0.53
	T2 : 0.47

NOT POLYMORPHIC FOR: BamHI, BglII, EcoRI, HindIII, PstI, PvuII and MspI.

CHROMOSOMAL LOCALIZATION: pYNZ15 has been assigned to chromosome 2 by multipoint linkage analysis(1) with loci (APOB, D2S6) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the TaqI RFLP was observed in 50 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: RFLPs were observed under normal hybridization and wash stringencies.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S.Povey, N.E. Morton and S.L. Sherman, Cytogenet. Cell Genet. 40:67-106 (1985)
3. G.M. Lathrop et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press